

SERAS-B-0297

JOB BOOK

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PROJECT NAME

Diamond-Alkali

PROJECT NUMBER

SERAS-222

CREW C. GIVINS C. FRENCH J. POLICASTRI
R. MAGAN D. NEWCOMER

DATE 08/12/15 BOOK # 1 OF 1

WEATHER Fair, seasonable



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SERAS-B-0297

(1) (1)

CURVE FORMULAS

$$T = R \tan \frac{1}{2} I$$

$$T = \frac{50 \tan \frac{1}{2} I}{\sin. \frac{1}{2} D}$$

$$\sin. \frac{1}{2} D = \frac{50}{R}$$

$$\sin. \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$$

$$R = T \cot \frac{1}{2} I$$

$$R = \frac{50}{\sin. \frac{1}{2} D}$$

$$E = R \csc. \sec \frac{1}{2} I$$

$$E = T \tan \frac{1}{2} I$$

$$\text{Chord def.} = \frac{\text{chord}^2}{R}$$

$$\text{No. chords} = \frac{I}{D}$$

$$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 + 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 + 200 = 3.125$. $100 - 3.125 = 96.875$ = Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{1}{4} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3, \dots etc. are the discrepancies of various results from the mean, and if $\sum d^2$ = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\sum d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE											
1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2'	.0333	12'	.2000	22'	.3667	32'	.5333	42'	.7000	52'	.8667
3'	.0600	13'	.2167	23'	.3833	33'	.5500	43'	.7167	53'	.8833
4'	.0867	14'	.2333	24'	.4000	34'	.5667	44'	.7333	54'	.9000
5'	.0833	15'	.2500	25'	.4167	35'	.5833	45'	.7500	55'	.9167
6'	.1000	16'	.2667	26'	.4333	36'	.6000	46'	.7667	56'	.9333
7'	.1167	17'	.2833	27'	.4500	37'	.6167	47'	.7833	57'	.9500
8'	.1333	18'	.3000	28'	.4667	38'	.6333	48'	.8000	58'	.9667
9'	.1500	19'	.3167	29'	.4833	39'	.6500	49'	.8167	59'	.9833
10'	.1667	20'	.3333	30'	.5000	40'	.6667	50'	.8333	60'	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	1/4	3-16	1/4	5-16	1/4	3/4	1/4	5/16	1/4	1/16
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729	
1	2	3	4	5	6	7	8	9	10	11	
.0683	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	

8/12/2015

6:00 AM AT LM/SERAS (EDISON, NJ)

TO TRAVEL TO THE GIVAUDAN (CCC) IN CLIFTON, NJ. SITE IS PT 261 ALONG ROAD. ACCORDING TO THE JET, SURVEYOR PROPERLY.

150 WILL BE PULLING TRAILER AND EQUIPMENT. RICH MAGAN WILL DRIVE 150/TRAILER.

C. GUINN WILL RIDE W/ R. MAGAN.

CHRIS FRENCH AND JAC POLICASTRI WILL ALSO BE TRAVELING TO SITE IN THE SUBURBAN EQUIPMENT PARKED ON 812/PS. WILL MEET

JEREMY NEWCOMER (CSAP FROM AMS) ON S/C AND STEVE BLACK (CSAP/CRT), EUGENIO MACIAS (CSA-RAM) AND REPRESENTATIVES FROM GIVAUDAN. SAMPLING PT 2 X 10'X10'

25 FT APART IN CENTER OF THE WIND C/W

1 800 JAR FULL PCDF/PCDF, TCDT, PCB HCP, 1/4 JAR FULL ACY - RGR SAMPLE.

SAMPLE #1806 LOCATED ON GWC-1-X-XX-X W/

GWC-2-X-XX-X WHERE X=DEPTH IN FEET

8/13/15 AM-11:15 AM. C. GUINN W/PCD MOUNTED ON PLATE

JUSTIN COMPACTED
CANTER CARDNO / ENVIRO TESTS ON PLATE

1980-8

8/13/81

(C)

Liu Zhan, PAO.

W.H. Thompson

C. G. Abbott, LS

SP-77

Rich who exactly pinned GNE



REINING LAYER UNKNOWN AND CENTER. ANGLE

GNE-1 & GNE-2 x 12" off center. DOWING N 2' x 2' square w/tape

900 sq. feet ground

STRUCT (Joe McCarffy)

Roughly thicker than original

Apple cored up beam multile 1 span
and painted approx. 4' thick.

Gravel layer below is sand mixt

Bricking or wire tie foundation

Chew S. got a jackhammer

Portia ~ 5' x 10' foundation

LSH. same support brick on

AIR KNEES (top) C. LAD:

Call Russell Ball - (609) 760-7506, no pickup p.m.
Perch oxygen or propane if needed
Burrard P. cont. holes larger N 2' apart
one end P. make a 2' x 4' hole

(Approximate)

Sinking distance 6-8"

N 1/2" (approximate)

depth

62"

PENNS

JOY

COMING SOON

BRONX

CHON G.S.

1/1/81 2344224453 N
391500.15 E

GNE-2 33442237.61 N
3915474.85 E

W.H. check it, I'm going to turn around now!!

I'm going to diff. stuff drillings, brick will

be going firm surface, great

To 1' deep excavation from surface

Temporary stabs B. & C. for.

GWC-2-

8/13/15 (a)

PERMISIVE A1 41"

5' AMMONIACAL 310 4'

0-10" SURFACE STONE + GRAY ROCKS & GARNET

10-40" CLEAN FINE, FINE, COARSE

GRAY BROWN STONE

4'-5' TAN MARBLE

5-6" = COARSE, NK GR.

6-8" COARSE W/ GRANITE SC. MEDIUM SIZ.

7-7.5" LIGHT BROWN GR.

7-8" - FINER - COARSE, BLACKER THAN THE

5" COARSE WHITE GRANITE WITH SHIMMERS - WHITE MARBLE

8-9" DARK RED STONE, GR.

SILTY SAND, SOME CALCI.

GWC-2 (STONE)

MEMBRANE A1 53"

REFRACT 0-6" SIMILAR CON.

MTC. CONC. CONC. A 9"

A 10" 11" 12"

A 11" 12" 13" 14" 15" 16" 17" 18" 19" 20"

WELL KNOWN FOR BIFACIAL & LM/SM, 5" COARSE

6" M-2 - 25/07 5/17/15

COLL. 12 JUN 15

FROM THE BACK (BIFACIAL) IN MS. KASHI

8/17/15

(b)

GWC-2 - 0910 AT 17:22

* LINE COLLECTION MADE

GWC-1 A1 6 10' BLM MEMBRANE

ONLY 1 COLOR CONNECTED

NEVER 6' DEEP OR MORE AT

CONSIDERABLE DILUTION COULD SKIRT THIS

SOME GRANITE SP. OF 7.8"

2 SENSORS CONNECTED

SAMPLES COLLECTED 6-8' & 5'-6'

GWC-1 - 06-08 5:57

GWC-1 - 0810 6:08

6:08

REMOVED TO CONSIDERABLE DILUTION

SOLELY PREDOMINANT COLOR

TOP OF SLATE X RIVER

LIP OF RIVER SLATE 8:10.

8/17/15 TO THE 8:15. KEEP THE SITE FRESH

C. GUNNARSSON, C. MARSHALL T. BUCKNER

Sketch (b)

Site or Site w/ Lihua Pines Missing
Stones Made & Still Lying
Near to New Glass 10 meters. Shattered
Moton broken

Abundant fabric (B12) Monolith

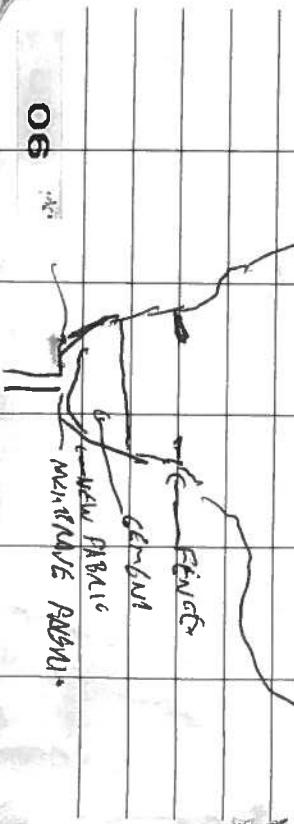
CORES (B12) of the surface
of Chit-2 and any cut at the
census filled w/ Draining water.

Bottom of Chit-1 - Site of high abundance

2d REACH REACH RIVER

1 REACH WIDEST IS Gallows
OF RIVER (CROWN PROJECT)
IN TOP OF MIG. NOTE & DRIPIC AT
BWC-1

Sept 10
PIT CBN
REACH RIVER



Sketch (c)

PICTURE 4.11 cells to S. Maka of 2000
and fragments fine granular, light brown
and light pinkish red, are well rounded.
C.I. in sandstone gray yellowish to dark.

See previous one transition to deeper on site,
Garnet found transition (C) fine to bright
red in top. No. 10 to 1000
prior to ellipsoids. Surface thin
red & pinkish

10 surface in basin Reddish to reddish
7.0 Vicksburg Miss. Main.

1000/feet. red caprock, KSCP, 1000

8/2/11
50 meters long, 200 m 8/2/11 and
around 1 Lab. Vicksburg (C) on 8/2/11 disturbed

